

HEMODIALYSIS PREPARATION

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Abstract

PROBLEM TO BE SOLVED: To obtain an artificial dialyzing preparation to be used in hemodialysis and free from acetic acid by using bicarbonate ion as an alkalizing agent and a lactic acid-lactate system as a buffering agent.

SOLUTION: A bicarbonate dialyzing preparation composed of an agent A containing sodium ion, potassium ion, calcium ion and magnesium ion and an agent B containing sodium bicarbonate is incorporated with a lactic acid-lactate buffering agent as a pH-modifier. The molar ratio of lactic acid to lactate is 1:(1-5), the lactate is composed mainly of calcium lactate and the content of the lactate ion is 3-10mEq/L at the time of use. Since the artificial dialysis preparation is free from acetic acid, it does not cause a clinical signs caused by acetic acid. A stable preparation free from pH variation even after the storage over a long period can be produced by the use of a non-volatile lactic acid-lactate buffering agent. Especially in the case of a powdery preparation, a stable dialysis preparation free from pH variation even after a long-term storage can be prepared because of the absence of a volatile component.

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